



Response
#15
1/31/02

Patent
Attorney's Docket No. 027575-152

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
John G. FREED) Group Art Unit 2684
Application No. 09/035,944) Examiner Yemane Waldetatos
Filed: March 6, 1998)
For: System and Method of Improving the)
Dynamic Range of a Receiver in the)
Presence of a Narrowband Interfering)
Signal)

RESPONSE

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Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

This paper is in response to the Office Action mailed on October 2, 2001.

REMARKS

Claims 1-24 are pending. Claims 1, 8, and 15 are in independent form.

Claims 1-5, 7-12, 14-19, and 21 were rejected for obviousness over U.S. Patent No. 5,758,271 to Rich et al. ("Rich") in view of U.S. Patent No. 6,134,430 to Younis et al. ("Younis"). Applicant disagrees.

Claim 1 defines an apparatus for improving the dynamic range of a receiver. The apparatus includes a processor for computing an error rate of a received signal and a low noise amplifier (LNA) with an adjustable input intercept point. The input intercept point is adjusted depending on the computed error rate.

In contrast, Rich describes a CDMA radio receiver having, among other things, a radio receiver 104, a gain controller 112, and a signal quality determiner 111. The gain controller adjusts the gain of the radio receiver in response to the quality of the received signal. The quality may be an error rate estimate of a demodulated signal.



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John G. FREED)	
Application No. 09/035,944)	
Filed: March 6, 1998)	Group Art Unit 2684
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RESPONSE TRANSMITTAL LETTERAssistant Commissioner for Patents
Washington, D.C. 20231

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Sir:

Enclosed is a reply for the above-identified patent application.

No additional claim fee is required.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17, 1.20(d) and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

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Date: January 2, 2002

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Judith Harris
Judith Harris
January 2, 2002
Date